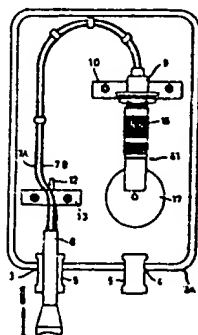


2000-322395/28

SUMITOMO ELECTRIC IND CO

JP-2000098141-A

Overhead optical information outlet for transmitting information, has optical fiber core wires whose connection state is changed depending on whether information is being transmitted or not



Novelty: A receptacle (9) is installed at both ends of optical fiber core wires (7A, 7B). A box (1) protects the receptacle. When transmitting information, a short circuit element detachably attached to the receptacle, is removed and the transmission apparatus is connected to the receptacle. When information is not transmitted, both ends of optical fiber core wires, are mutually connected.

Use: For transmission of information to monitoring center from pylon site using overhead composite optical fiber and ground wire.

Advantage: Information transmission of large capacity can be simultaneously performed easily from several sites. Optical coupler need not be used. Long distance transmission or digital multiplex transmission can be performed.

Description of Drawing(s): The figure shows the external view of optical information outlet.

Box 1

Fiber core wire 7A, 7B

Receptacle 9

Company Code: SUME

Publication Date: 2000.04.07

Drawing: 3/9

Pages: 9

Derwent Codes: V07-N; W02-C04A; W02-C04B1

IPC: G02B 6/00; G02B 6/36; H04B 10/12; 10/13; 10/135; 10/14

Additional Data: KANSAI DENRYOKU KK (KANT);

Derwent Classes: P81; V07; W02

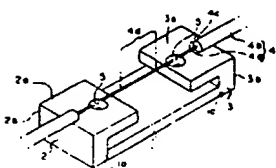
Latest Priority: 1998.09.21 1998JP-266875

2000-322397/28

FUJIKURA LTD

JP-2000098145-A

Optical fiber grating fixing structure has grating formed on base optical fiber from which coating layer is removed by beams



Novelty: Beams (2,3) fixed to opposing sides (1a) of base (1), is made of material having large thermal expansion coefficient, where as the base is made of material with small thermal expansion coefficient. Grating (4d) is formed on a base optical fiber portion (4c) from which coating layer (4b) is removed by the beams.

Use: For fixing optical fiber grating.

Advantage: Since the beams for optical fiber grating from which its characteristics changes is difficult is used, reliability of the grating is increased.

Description of Drawing(s): The figure shows the perspective diagram of optical fiber grating fixing structure.

Base 1

Opposing sides 1a

Beams 2,3

Coating layer 4b

Base optical fiber portion 4c

Coating layer 4d

Company Code: FUJD

Publication Date: 2000.04.07

Drawing: 1/14

Pages: 9

Derwent Codes: V07-F02B; V07-K04

IPC: G02B 6/10; G02B 6/00

Derwent Classes: P81; V07

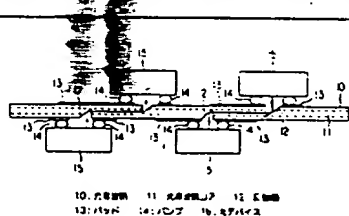
Latest Priority: 1998.09.21 1998JP-267102

2000-322401/28

NIPPON TELEGRAPH & TELEPHONE CORP

JP-2000098153-A

Optical module mounting structure for optical information communication system, has waveguide with reflection surfaces formed diagonally with deeper surface than core formed on sides of optical distribution line



Novelty: An optical waveguide (10) consists of core (11) through which optical signals are propagated. Optical reflector surfaces (12) are formed with diagonal surface deeper than core, at 45° to signal propagation direction, at fixed position on both sides of waveguide. Optical devices (15) are mounted on bumps (14), at radiation position of reflecting surface, on both sides of optical distribution line.

Use: For optical information communication system.

Advantage: Doubles packing density of optical device and thereby offers high density, thin-shaped optical modules. Avoids need of substrate and thereby reduces size of optical modules.

Description of Drawing(s): The figure shows the schematic diagram of optical device mounting structure.

Optical waveguide 10

Core 11

Optical reflector surface 12

Bump 14

Optical device 15

Company Code: NITE

Publication Date: 2000.04.07

Drawing: 1/3

Pages: 6

Derwent Codes: U12-A01C; V07-G04; V07-G10C

IPC: G02B 6/122; H01L 31/0232; 33/00

Derwent Classes: P81; U12; V07

Latest Priority: 1998.09.21 1998JP-266652

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**FIXING STRUCTURE FOR OPTICAL FIBER GRATING**

Publication Number: 20-00098145 (JP 2000098145 A) , April 07, 2000

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Application Number: 10-267102 (JP 98267102) , September 21, 1998

International Class:

G02B-006/10
G02B-006/00

Abstract:

PROBLEM TO BE SOLVED: To provide a fixing structure for optical fiber grating hardly varying characteristics against environmental changes. **SOLUTION:** On a fixing member composed of a base made of a material of a small coefficient of thermal expansion, and a 1st beam 2 and a 2nd beam 3 fixed to opposing sides 1a, 1a of the base 1 and made of a material of a large coefficient of thermal expansion, an optical fiber grating with a grating part 4d formed in a bare optical fiber part 4c which is a partly stripped connectionpart 4b is fixed with an adhesive 5 on the 1st beam 2 and the 2nd beam 3 on both sides of the grating part 4d of the bare optical fiber part 4c, and thus, an optical fiber grating is fixedly structured.

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